## **Appendix K Models of Health Outcomes**

Table K-1—Health outcomes: OLS regressions for birthweight

	Birth weight (ounces)		
_	(1)	(2)	
Number of observations	52,927	52,927	
R-squared	0.048	0.048	
PCTINSTRU	0.03		
PCTCOST	(6.51)	0.03	
		(5.66)	
Male infant	3.63	`3.63 <sup>′</sup>	
	(22.37)	(22.38)	
Maternal characteristics	,	,	
Age in years	1.23	1.24	
,	(11.22)	(11.29)	
Age squared	-0.02	-0.02	
	(9.24)	(9.28)	
Height in inches	`1.00 <sup>′</sup>	`1.00 <sup>′</sup>	
ŭ	(32.65)	(32.65)	
Race = Black	_4.96 <sup>°</sup>	_5.01	
	(16.11)	(16.28)	
Race = Hispanic	1.59	1.60	
	(7.09)	(7.15)	
Race = Asian	1.34	1.34	
	(1.00)	(1.00)	
Race = American Indian	-2.24	_2.23 <sup>°</sup>	
	(4.84)	(4.81)	
Household characteristics	· - /	( - )	
Participation in food stamps	-1.42	-1.44	
р	(4.67)	(4.72)	
Participation in TANF	1.31	1.36	
	(4.11)	4.28)	
Participation in Medicaid	0.30	0.30	
	(1.72)	(1.69)	
Family size	0.46	0.46	
. ,	(8.89)	(8.96)	
Family income as percent of poverty	0.004	0.004	
. , , , , , , , , , , , , , , ,	(3.88)	(3.87)	
Rural	-1.85	-1.85	
	(6.78)	(6.81)	
Urban	-0.67	-0.67	
	(3.68)	(3.72)	
Intercept	29.95	29.78	
·	(12.21)	(12.08)	

Categories "left out" of regressions were: race = white, and location = suburban.

Sample is pregnant women certified in WIC in November 2000 who gave birth and recertified by April 2001. T-statistics in parentheses.

Table K-2—Health outcomes: OLS regressions for change in height-for-age

	Change in height-for-age	
	(1)	(2)
Number of observations	158,798	158,798
R-squared	0.011	0.011
PCTINSTRU	0.02	
	(7.68)	
PCTCOST		0.02 (6.88)
Male infant	29.28	29.29
	(18.17)	(18.18)
Number days between height measurements	-0.002	-0.002
	(1.27)	(1.29)
Age in months at Nov 2000 height measurement	2.28	2.28
	(35.56)	(35.56)
Age in months squared	-0.03	-0.03
	(33.98)	(33.98)
Male $\times$ age in months at Nov 2000 height measurement	-1.59	-1.59
Made and Secretary and	(17.66)	(17.66)
Male $\times$ age in months squared	0.02	0.02
Race = Black	(17.09) 1.71	(17.09) 1.69
nace = Diack	(10.49)	(10.37)
Race = Hispanic	0.44	0.45
Tidos Tilopaino	(3.77)	(3.84)
Race = Asian	0.36	0.37
	(0.68)	(0.69)
Race = American Indian	-0.03	-0.02
	(0.14)	(0.09)
Participation in food stamps	-0.12	-0.12
	(1.00)	(1.02)
Participation in TANF	0.04	0.06
	(0.32)	(0.45)
Participation in Medicaid	-0.02	-0.01 (2.40)
Family size	(0.20)	(0.16)
Family size	-0.11	-0.11
Family income as percent of poverty	(4.52) 0.001	(4.41) 0.001
rainily income as percent of poverty	(2.02)	(2.05)
Migrant status	-0.44	-0.44
ingrant states	(1.36)	(1.34)
Rural	-0.72	-0.73
	(5.49)	(5.56)
Urban	-0.25	-0.25
	(2.84)	(2.87)
Intercept	-42.39	-42.42
	(34.96)	(34.82)

Categories "left out" of regressions were: race = white, and location = suburban.

Sample includes children aged 2 years and older, certified in September through November 2000, and recertified by April 2001. Interactions between male and race were also included in the model, but were not statistically significant and are not shown. T-statistics in parentheses.

Table K-3—Health outcomes: Logistic regressions for probability of "exiting" anemia

	Probabi	Probability of "exiting" anemia		
	(1)	(2)	(3)	
Number of observations	24,521	24,521	24,521	
R-squared	0.02	0.02	0.02	
PCTINSTRU	-0.001			
	(0.69			
PCTCOST		-0.004		
PCTCEREAL		(0.24)	-0.003	
1 0 1 0 E I I E I I E			(24.69)	
Male	-0.04	-0.04	-0.04	
	(2.07)	(2.06)	(2.21)	
Number days between blood iron measurements	-0.001	-0.001	-0.001	
	(1.72)	(1.65)	(1.45)	
Age in months at Nov 2000 height measurement	0.01	0.01	0.01	
rige mimerane at their 2000 hongitumoacan ement	(0.48)	(0.51)	(0.48)	
Age in months squared	0.0002	0.0002	0.0002	
rigo in monino oquarou	(1.14)	(1.02)	(1.21)	
Age between 12-23 months	0.34	0.32	0.36	
Age between 12 20 months	(5.63)	4.96)	(6.28)	
Age between 24-35 months	0.22	0.21	0.24	
Age between 24 00 months	(3.00)	(2.57)	(3.42)	
Age between 36-48 months	0.15	0.14	0.16	
Age between 50-40 months	(2.72)	(2.39)	(3.07)	
Race = Black	-0.50		-0.48	
Nace - Diack		-0.50		
Dana Hispania	(89.60)	(89.68)	(84.60)	
Race = Hispanic	-0.16	-0.17	-0.18	
5	(14.80)	(15.15)	(17.90)	
Race = Asian	-0.42	-0.42	-0.41	
	(4.83)	(4.88)	(4.49)	
Race = American Indian	-0.83	-0.83	-0.83	
	(93.42)	93.96)	(93.46)	
Participation in food stamps	-0.02	-0.02	-0.03	
	(0.35)	(0.32)	(0.48)	
Participation in TANF	0.06	0.06	0.06	
	(2.31)	(2.36)	(2.30)	
Participation in Medicaid	0.02	0.02	0.02	
	(0.37	(0.34)	(0.52)	
Family size	0.01	0.01	0.01	
	(1.18)	(1.11)	(0.52)	
Family income as percent of poverty	0.0005	0.0004	0.0004	
	(5.33)	(5.22)	4.99)	
Migrant status	0.11	0.11	0.11	
	(1.12)	(1.11)	(1.13)	
Rural	0.31	0.31	0.31	
	(49.90)	(50.43)	(48.93)	
Urban	0.27	0.27	0.26	
	(80.54)	(80.83)	(78.22)	
Intercept	0.07	0.06	-0.31	
	(0.08)	(0.07)	(1.84)	

Categories "left out" of regressions were: race = white, and location = suburban.

Sample includes children certified in September through November 2000, and recertified by April 2001. R-squared is calculated as  $R^2 = 1 - [L(0)/L(B)]^{2/n}$ , where L(0) = likelihood of intercept only model, L(B) = likelihood of specified model, n = sample size. Wald chi-square statistic in parentheses.

Table K-4—Health outcomes: Logistic regressions for probability of "exiting" underweight

	Probability of "exiting" underweight		
<u>-</u>	(1)	(2)	
Number of observations	13,177	13,177	
R-squared	0.137	0.136	
DOTINGTOLL	0.005		
PCTINSTRU	0.005 (25.28)		
PCTCOST	(23.20)	0.004	
1010001		(12.35)	
Weight-for-age in November 2000	0.29	0.29	
ů ů	(1,503.91)	(1,505.69)	
Male	0.17	0.17	
	(0.52)	(0.53)	
Number days between weight measurements	0.01	0.01	
	(22.62)	(22.23)	
Age in months at Nov 2000 height measurement	0.06	0.06	
A sector results a second	(21.16)	(20.26)	
Age in months squared	-0.001	-0.001	
M. I	(35.39)	(34.35)	
Male $\times$ age in months at Nov 2000 height measurement	-0.01	-0.01 (0.50)	
Mala and Samuratha amount	(0.56)	(0.56)	
Male $\times$ age in months squared	0.0003	0.0003	
Dage Block	(1.00)	(0.99)	
Race = Black	0.10	0.09 (0.86)	
Race = Hispanic	(1.04) 0.17	0.18	
riace – i lispanic	(5.97)	(6.52)	
Race = Asian	-0.16	-0.16	
Tidoo - Notari	(0.23)	(0.22)	
Race = American Indian	0.51	0.51	
rado ranondar maian	(7.93)	(8.13)	
Participation in food stamps	0.04	0.03	
·	(0.47)	(0.45)	
Participation in TANF	-0.03	-0.02	
·	(0.31)	(0.16)	
Participation in Medicaid	-0.10	-0.10	
	(5.95)	(6.06)	
Family size	-0.01	-0.01	
	(0.57)	(0.43)	
Family income as percent of poverty	-0.0001	-0.0001	
	(80.0)	(0.06)	
Migrant status	0.15	0.15	
	(0.81)	(0.81)	
Rural	-0.21	-0.21	
	(11.83)	(12.39)	
Urban	-0.17	-0.17	
	(13.37)	(13.53)	
Intercept	-3.76	-3.64 (4.00, 60)	
	(144.90)	(133.63)	

Categories "left out" of regressions were: race = white, and location = suburban.

Sample includes children aged 2 years and older, certified in September through November 2000, and recertified by April 2001. Interactions between male and race were also included in the model, but were not statistically significant and are not shown. R-squared is calculated as  $R^2 = 1 - [L(0)/L(B)]^{2/n}$ , where L(0) = 1 likelihood of intercept only model, L(B) = 1 likelihood of specified model, n = 1 sample size. Wald chi-square statistics in parentheses.